

**U.G. 1st Semester Examination - 2020**

**ZOOLOGY**

**[HONOURS]**

**Course Code : ZOOL-H-CC-T-01**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** questions: 2×5=10
- a) Why doesn't *Amoeba* have a definite shape?
  - b) Reef building corals limited to shallow water. – Why?
  - c) Give two important physiological parasitic adaptations of *Ascaris*.
  - d) How metagenesis differs from alternation of generation?
  - e) What is coral bleaching?
  - f) Distinguish incurrent and excurrent canal system.

- g) Give two general characters of class Turbellaria.
  - h) What is Linnean Hierarchy?
2. Answer any **two** questions: 5×2=10
- a) Describe the types of coral reef. Describe fore reef and back reef zone. 3+2
  - b) Discuss about the leuconoid canal system with diagram. 5
  - c) Distinguish radial and bilateral symmetry with their advantages. What is biradial symmetry? 4+1
  - d) Distinguish alpha, beta and gamma taxonomy. What is taxonomic synonymy? 3+2
  - e) Describe the free swimming larval stages of *Fasciola* with diagram. 2.5+2.5
2. Answer any **two** questions: 10×2=10
- a) Define lobopodium. Discuss sol – gel theory of *Amoeba* locomotion. Describe the molecular basis of solation and gelation. Discuss on the role of various polymerizing and depolymerizing proteins in the process. 1+3+2+2+2

- b) Discuss the characters of cnidaria. How are scyphozoa different from anthozoa? Describe the different polypoid modifications seen in Siphonophores. 4+2+4
- c) Define law of Priority. Mention its exceptions. What is designated priority and first reviser principle? How this law is applicable in case of synonymy? Describe subjective and objective synonyms. 2+2+2+2+2
- d) What is elephantiasis? Distinguish male and female *Wuchereria*. Define primary and secondary host of a parasite. Discuss the life cycle of *Wuchereria* in the primary host. What are the symptoms of its infection? 1+2+2+3+2
-